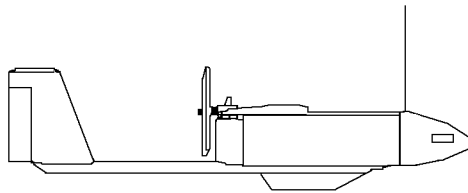


French Unmanned Aerial Vehicle Fox AT1



SYSTEM

Alternative Designations: ASPIC AT

Date of Introduction: 1988

Proliferation: France, United Nations, and civilian customers

Description:

Engines: 1 x Limbach 22 hp L 275 E two-cylinder, two-stroke, air-cooled

Propulsion: 2-blade push propeller

Weight (kg):

Takeoff: 90

Fuel and Payload (combined): 30

Speed (km/h):

Maximum (level): 216

Cruise: 145

Ceiling (m):

Maximum: 3,000

Minimum: 30

Fuel (liters): INA

Endurance (hr): 1.5

Range (km):

RPV Mode: 50

Relay/Programmed Mode: 100

Dimensions (m):

Wing Span: 3.6

Length (fuselage): 2.75

Height: 0.25

Launch Method: Hydraulic or sandow ramp.

Recovery Method: Parachute

Landing Method: skid

Maximum Flights Per Aircraft: INA

Survivability/Countermeasures: INA

SENSOR/OPTICS

Payload Type: CCD color video or infrared cameras, thermal analyzers, high definition line scanners, NBC and meteorological sensors.

Television field of view: INA

IR Linescan:

Length: INA

Resolution: INA

VARIANTS:

Fox AT2 UAV

Fox TX Electronic Warfare UAV

Fox TS1 Target Drone

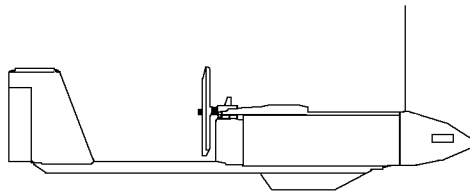
Fox TS3 Target Drone

Mini-Fox Target Drone

NOTES

The Fox AT1 UAV is one of a family of low-cost UAVs designed by the French firm CAC SYSTEMES. Each UAV system is composed of a transportation and launching system, a ground control station (GCS) mounted on a 4x4 truck frame, and four UAVs. The Fox AT1 is launched from a mobile launching catapult (transportation and launching system) that is mounted on a trailer with transportation compartments for 4 UAVs. Normally two of the four UAVs are equipped with CCD cameras for daytime missions and the remaining two are FLIR equipped for nighttime missions. Upon mission completion the UAV can be reserviced and available for another mission in less than 30 minutes. The Fox AT1 is capable of carrying 15 kilograms of various payloads. Additionally, two underwing pods allow for four loads to be carried and dropped. Normally the GCS consist of a crew of three personnel: pilot, observer, and a technician. However, two people can deploy the UAV system and have it available for operation in less than 20 minutes. The guidance and control consists of an UHF data link with four proportional and eight numeric channels, of which four control the autopilot. Telemetry is through a 12-channel data link.

French Unmanned Aerial Vehicle Fox AT2



SYSTEM

Alternative Designations: None

Date of Introduction: 1988

Proliferation: France, United Nations, and civilian customers

Description:

Engines: 1 x Limbach 22 hp L 275 E two-cylinder, two-stroke, air-cooled

Propulsion: 2-blade push propeller

Weight (kg):

Takeoff: 135

Fuel and Payload (combined): 60

Speed (km/h):

Maximum (level): 216

Cruise: 145

Ceiling (m):

Maximum: 3,000

Minimum: 30

Fuel (liters): INA

Endurance (hr): 5

Range (km):

RPV Mode: 50, 100, 150 (200 as an option)

Relay/Programmed Mode: 350

Dimensions (m):

Wing Span: 4.0

Length (fuselage): 2.75

Height: 0.25

Launch Method: Hydraulic or sandow ramp.

Recovery Method: Parachute

Landing Method: Airbag

Maximum Flights Per Aircraft: INA

Survivability/Countermeasures: INA

SENSOR/OPTICS

Payload Type: Panoramic CCD color Camera, Low Light Television (with zoom), IR linescan CAMELIA camera, SAR camera, FLIR, multi-sensor gimball platform (IR and visible), etc.

Television field of view: INA

IR Linescan:

Length: INA

Resolution: INA

VARIANTS: None

NOTES

The Fox AT2 UAV is one of a family of low-cost UAVs designed by the French firm CAC SYSTEMES. Each UAV system is composed of a transportation and launching system, a ground control station (GCS) mounted on a 4x4 truck frame, and four UAVs. The Fox AT2 (like the Fox AT1) is launched from a mobile launching catapult (transportation and launching system) that is mounted on a trailer with transportation compartments for 4 UAVs. Normally two of the four UAVs are equipped with CCD cameras for daytime missions and the remaining two are FLIR equipped for nighttime missions. Upon mission completion the UAV can be reserviced and available for another mission in less than 30 minutes. The Fox AT2 is capable of carrying 30 kilograms of various payloads. Additionally, two underwing pods allow for two loads to be carried and dropped. Normally the GCS consist of a crew of three personnel: pilot, observer, and a technician. However, two people can deploy the UAV system and have it available for operation in less than 20 minutes. The guidance and control consists of an UHF data link with four proportional and eight numeric channels, of which four control the autopilot. Telemetry is through a 12-channel data link.